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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,306	02/10/2004	Brian J. Carrigan	4316-040284	1519
28289	7590	12/10/2007	EXAMINER	
THE WEBB LAW FIRM, P.C.			SHAW, PELING ANDY	
700 KOPPERS BUILDING				
436 SEVENTH AVENUE			ART UNIT	
PITTSBURGH, PA 15219			PAPER NUMBER	
			2144	
			MAIL DATE	
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			12/10/2007	
			PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/775,306

Applicant(s)

CARRIGAN ET AL.

Examiner

Peling A. Shaw

Art Unit

2144

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-54 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 07/29/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. This application has claimed a priority on Canada # 2,455,043 on 01/09/2004. The filing date is 02/10/2004.

Election/Restrictions

2. Restriction to one of the following invention is required under 35 U.S.C. 121:

Group I. Claims 1-11 and 12-19 drawn to computer graphics processing and selective visual display systems: display driving control circuitry, particularly spatial processing (e.g. patterns or subpixel configuration), classified in class 345, subclass 694.

Group II. Claims 20-25 and 42-48 drawn to computer graphics processing and selective visual display systems: display driving control circuitry, particularly temporal processing (e.g. pulse width variation over time), classified in class 345, subclass 691.

Group III. Claims 26-35 drawn to computer graphics processing and selective visual display systems: display driving control circuitry, particularly adjusting display pixel size or pixels per given area (i.e. resolution), classified in class 345, subclass 698.

Group IV. Claims 36-41 drawn to electrical computers and digital data processing systems: input/output, peripheral adapting, input/output data modification, particularly analog-to-digital or digital-to-analog, classified in class 710, subclass 69.

Group V. Claims 49-54 drawn to electrical computers and digital processing systems: multi-computer data transferring, particularly computer-to-computer direct memory accessing, classified in class 709, subclass 212.
3. The invention are distinct, each form the other because of the following reasons:

- a. Inventions I, II, III, IV and V are related as subcombination disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate function such as capturing a series of frame pixels, invention II has separate function such as video update data processing and generation, invention III has separate function such as detecting a change of video signal resolution and reacquiring a video signal, invention IV has separate function such as updating display and/or reflecting mouse movement, and invention V has separate function such as remotely access computer keyboard and mouse signals, virtual memory disk, and virtual floppy disk.

See MPEP § 806.05(d).

4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purpose as indicated is proper.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Refer to the enclosed PTO-892 for details.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peling A. Shaw whose telephone number is (571) 272-7968. The examiner can normally be reached on M-F 8:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William C. Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Peling A Shaw
Patent Examiner
Art Unit 2144

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